Open Space Master Plan

Many visitors to Homewood are pleasantly surprised. They do not expect flowering trees, quiet gardens, wide open green spaces and Georgian architecture on an urban campus.

Those are their first impressions.

Then they notice the 18-wheelers competing with pedestrians for access to Levering Hall. Service trucks pulled up on sidewalks. A "temporary" building that has stood almost since World War II. A road network that defines the concept, "You can't get there from here."

With a new student arts center nearing completion and the Whitaker Biomedical Engineering Institute's Clark Hall up next, to be followed by a Hodson Trust-funded classroom building, a student recreation center, a nuclear magnetic resonance facility and lots more down the road, the problems are only going to get harder to fix.

That's why President William R. Brody, the university administration and the Homewood deans chose to commission a new Homewood campus master plan in 1999. Change and growth are inevitable, they reasoned, and, if handled well, can result in a campus that's not only larger but more attractive and more human as well.

The university engaged Ayers/Saint/Gross, a Baltimore-based architecture firm., to lead a year-long planning process. This effort involved discussions and consultation with literally hundreds of Hopkins people --from the president to members of the incoming class of 2003 --and with representatives of the university’s neighbor communities.

Anonymous Donor

An anonymous donor is backing an ambitious effort to make the Open Space Plan happen sooner rather than later, now rather than a decade from now. In 180 days, from just after commencement in May 2000 to Christmas 2000, construction crews swarmed over the upper and lower quads and the plaza in front of the AMRs. By August 2001, work was completed on an area of campus covering about 24 acres, from University Parkway south to Shriver Hall, and from the AMRs west to Decker Garden and the Bloomberg Center.

The donor, President William R. Brody said, "has put his resources on the table and challenged us to transform Homewood into the finest urban campus in the nation."

During the drafting of the new campus master plan over the past year, a consensus formed that, as impressive as it is, Homewood's overall appearance and ambience are not yet equal to the university's stature.

"The concept of a serene, pedestrian-friendly campus with a signature design and a beauty all its own, caught the imagination of our donor just as it did that of the campus community," Brody said. "We owe him an enormous debt of gratitude for giving us a chance to put this part of the plan on such a fast track. Otherwise, it might have taken years to complete."

Design Team (February 2000 Through August 2001)

This dramatic make over in a short period of time has been a challenge. However, the design team has put their best effort to make this project reality. The design team members engaged by JHU and managed by RK&K include:

- Lead Consultant, Civil Site & Design Engineers: Rummel, Klepper & Kahl, LLP, Baltimore
- Construction Managers: Henry Lewis Contractors Inc., Owings Mills
- Architects/Master Planners: Ayers/Saint/Gross, Baltimore
- Landscape Architects: (Final Design) Mahan Rykiel Associates Inc., Baltimore
- Donor's Representative: Kolkowitz Kusske, Norwalk, Conn.
- Tree Preservation: Care of Trees Inc., Herndon, Va.
- Irrigation: Lynch & Associates, Beltsville, Md.
- Surveyors: JMT, Baltimore
- Speciality Lighting: Cline Bettridge Bernstein Lighting Design, New York

Great Excavations Construction (May 2000 Through August 2001)

Asphalt uprooted. Brick walkways laid down in place of roads. Most cars and trucks diverted from the core of campus. Newly landscaped quads, with consistent lighting fixtures and benches. Building and directional signs where past visitors have faced the moral equivalent of a maze.

Bricks--more than 1 million, plus marble and granite accent stones--were ordered and many have already been shipped to campus. Expert bricklayers and other skilled workers were recruited from as far away as southern Pennsylvania and northern Virginia. Plans were being drawn up for installation of several hundred trees and shrubs, and for quiet areas for contemplation and discussion.

The Great Excavations construction blitz is the first step in completion of the master plan. The plan is expected to guide development and building location at Homewood for decades.

Materials and Products Palette

This booklet was prepared by RK&K Engineers to document design and construction decisions and details. It contains site details, photographs and written information on manufacturers & finish specifications for the materials and products installed during the Great Excavations Construction. It is intended to be used as reference material for the continuing implementation of the master plan.

PAVING BRICK - VEHICULAR

MANUFACTURER: PINE HALL BRICK
MODEL NAME: PATHWAY FULL RANGE
FINISH SPECIFICATIONS: HEAVY VEHICULAR PAVING BRICK, TYPE R, ASTM C 1272, APPLICATION PX

PAVING BRICK - PEDESTRIAN

MANUFACTURER: PINE HALL BRICK
MODEL NAME: PATHWAY FULL RANGE
FINISH SPECIFICATIONS: HEAVY VEHICULAR PAVING BRICK, TYPE R, ASTM C 1272, APPLICATION PX

JHU: OPEN SPACE IMPLEMENTATION - PHASE I
PAVING BRICK

August 2001
Sheet 4 of 34
BRICK PAVEMENT WITH MARBLE BANDS (VEHICULAR) (NTS)

HAND TIGHT, SAND SWEEP JOINTS

1'-0"

MARBEL PAVER

FILTER FABRIC

GEOTEXTILE

CRUSHER RUN CR-6

COMPACTED SUBGRADE

SAND SETTING BED

PAVING MARBLE

MANUFACTURER: GAWET MARBLE & GRANITE, INC.

MODEL NAME: DANBY GREY

FINISH SPECIFICATIONS: EXTERIOR HONED (EXPOSED SURFACE ONLY)
GRANITE CURB

MANUFACTURER: NEW ENGLAND STONE, INC.
MODEL NAME: WOODBURY S
FINISH SPECIFICATIONS: THERMAL TOP, SPLIT FACE, SAWN SIDES & BOTTOM
GRANITE HC RAMP PAVERS

MANUFACTURER: NEW ENGLAND STONE, INC.
MODEL NAME: WOODBURY S
FINISH SPECIFICATIONS: HC RAMP: THERMAL TOP,
SAWN SIDES & BOTTOM
VEHICULAR: 5 SIDES SPLIT FACE,
SAWN BOTTOM

GRANITE VEHICULAR PAVERS
WHITE WALK PAVERS

SECTION

DETAIL - WHITE WALK

1" SAND SETTING BED

GLASS FIBER
BASE

5' BITUMINOUS
BASE, SAND BF

PIETRA BIANCA
BASECOURSE

10" GRANITE Москве.

5' GRANITE TARMAC MORTAR

PLAN

SIDE DETAIL FOR BRICK PAVER EDGING SECTION ON RNG CS-12

ALVEN BROWN CARRIERS

BORDER EDGE OF COURSE

JOHNS HOPKINS UNIVERSITY
HOMEWOOD CAMPUS
BALTIMORE, MARYLAND

JHU: OPEN SPACE IMPLEMENTATION - PHASE I
WHITE WALK

August 2001
Sheet 8 of 34
GRANITE SHORELINE

MANUFACTURER: NEW ENGLAND STONE, INC.
MODEL NAME: WOODBURY S
FINISH SPECIFICATIONS: THERMAL TOP, SAWN SIDES & BOTTOM
YARD INLET FRAME & GRATE

NOTES:
1. SEE MSHA STANDARDS FOR FRAME ANCHORAGE DETAIL (MD - 374.02).
2. INLET SHALL BE CONSTRUCTED OF REINFORCED CONCRETE (MSHA STD. MIX NO. 2)
3. SIZE, TYPE AND DIRECTION OF OUTLET PIPE VARIES.
4. PROVIDE PRECAST MANHOLE FOR YARD INLETS THAT ARE GREATER THAN 5 FEET (MSHA STD. MD - 384.01, 24" MAXIMUM OUTLET PIPE). ADJUST ECCENTRIC CONE UNIT TO MATCH DIAMETER OF FRAME AND COVER.

MANUFACTURER (FRAME & GRATE): EAST JORDAN IRON WORKS
MODEL / PART NO: MHR-706 (24" DIAMETER)
FINISH SPECIFICATIONS: RADIAL GRATE, PAINT BLACK OR MATCH PAINT CHIP FROM JHU PAINT SHOP (RAL-7022 UMBRAGREY)

YARD INLET
MANHOLE FRAME & COVER

MANUFACTURER (FRAME & COVER): EAST JORDAN IRON WORKS
MODEL / PART NO: MHR-706 (24" DIAMETER)
FINISH SPECIFICATIONS: PERFORATED COVER
PAINT BLACK OR MATCH PAINT CHIP FROM JHU PAINT SHOP (RAL-7022 UMBRA GREY)
TYPICAL LANDSCAPE AREA DRAIN  
(NTS)

TYPICAL PAVED AREA DRAIN  
(NTS)

PLANTING BED AREA DRAIN
MANUFACTURER (FRAME & GRATE): NDS
MODEL / PART NO: 981 (9" SQUARE, ATRIUM GRATE)
FINISH SPECIFICATIONS: BLACK (PLASTIC)

LAWN AREA DRAIN
MANUFACTURER (FRAME & GRATE): NDS
MODEL / PART NO: 913 (9" SQUARE, FLAT GRATE)
FINISH SPECIFICATIONS: BLACK (CAST IRON)

PAVED AREA DRAIN
MANUFACTURER (FRAME & GRATE): URBAN ACCESSORIES
MODEL / PART NO: OT-24 (8-3/4" SQUARE)
FINISH SPECIFICATIONS: PAINT TO MATCH PAINT CHIP FROM JHU PAINT SHOP (RAL-7022 UMBRA GREY)

PAVED AREA DRAIN
MANUFACTURER (FRAME & GRATE): NDS
MODEL / PART NO: 981 (9" SQUARE, ATRIUM GRATE)
FINISH SPECIFICATIONS: BLACK (PLASTIC)
ROADWAY DRAIN FRAME & GRATE

MANUFACTURER (FRAME & GRATE): EAST JORDAN IRON WORKS

MODEL / PART NO: 5250 (24" SQUARE)

FINISH SPECIFICATIONS: PAINT BLACK OR MATCH PAINT CHIP FROM JHU PAINT SHOP (RAL-7022 UMBRA GREY)
REMOVABLE BOLLARD

MANUFACTURER: SPRING CITY ELECTRICAL MANUFACTURING CO.

MODEL NAME: PRINCETON MODIFIED, DWG BOL-24625

FINISH SPECIFICATIONS: PAINT TO MATCH PAINT CHIP FROM JHU PAINT SHOP (RAL-7022 UMBRAGREY)
PEDESTRIAN BOLLARD

Note: This “non-standard” detail was proposed by Henry H. Lewis and resulted in a significant cost savings.

MANUFACTURER: FENCE MASTERS
FINISH SPECIFICATIONS: GALVANIZED, DOME STYLE
POST CAP, PRIMERED POST,
PAINT TO MATCH PAINT CHIP
FROM JHU PAINT SHOP
(RAL-7022 UMBRAGREY)
VEHICULAR BOLLARD

MANUFACTURER: SPRING CITY ELECTRICAL MANUFACTURING CO.

MODEL NAME: PRINCETON MODIFIED (EXT. A. B.),
DWG BOL-24624

FINISH SPECIFICATIONS: PAINT TO MATCH PAINT CHIP FROM JHU PAINT SHOP (RAL-7022 UMBRAGREY)

NOTE: BOLLARD NOT INSTALLED IN PHASE I

VEHICULAR BOLLARD

JHU: OPEN SPACE IMPLEMENTATION - PHASE I

August 2001
Sheet 16 of 34
INFORMAL / GARDEN BENCH

MANUFACTURER: COUNTRY CASUALS
MODEL NAME: MENDIP
FINISH SPECIFICATIONS: TEAK WOOD
BENCH FASTENING

MANUFACTURER: COUNTRY CASUALS
MODEL NAME: MENDIP
FINISH SPECIFICATIONS: TEAK WOOD
FORMAL BENCH

MANUFACTURER: KENNETH LYNCH & SONS

MODEL NAME: WORLD'S FAIR / 6736 (WITHOUT BACK)
WORLD'S FAIR / 6737 (WITH BACK)

FINISH SPECIFICATIONS: CAST IRON ENDS PAINTED TO MATCH
PAINT CHIP FROM JHU PAINT SHOP
(RAL-7022 UMBRAGREY)
IPE BENCH SURFACE
BENCH FASTENING DETAIL (NTS)

MANUFACTURER: KENNETH LYNCH & SONS

MODEL NAME: WORLD'S FAIR / 6736 (WITHOUT BACK)
WORLD'S FAIR / 6737 (WITH BACK)

FINISH SPECIFICATIONS: CAST IRON ENDS PAINTED TO MATCH PAINT CHIP FROM JHU PAINT SHOP (RAL-7022 UMBRA GREY)
IPE BENCH SURFACE
BIKE RACK

MANUFACTURER: HUBER WELDING SERVICE

FINISH SPECIFICATIONS: 1 SHOP COAT RED OXIDE PRIMER
PAINT TO MATCH PAINT CHIP
FROM JHU PAINT SHOP
(RAL-7022 UMBRAGREY)
HAND RAILING

MANUFACTURER: JULIUS BLUM

MODEL NAME: 4441 V (VOLUTE)
4441 (STEEL TOP BAR)

FINISH SPECIFICATIONS: PAINT TO MATCH PAINT CHIP FROM JHU PAINT SHOP (RAL-7022 UMBRAGREY)
MANUFACTURER: SECURITY FENCE CO.
FINISH SPECIFICATIONS: BLACK VINYL COATED
1-3/4” DIAMOND MESH, 6 GAUGE
MANUFACTURER: MONUMENTAL IRON WORKS

MODEL NAME: IMPERIAL FENCE STYLE C

FINISH SPECIFICATIONS: PAINT BLACK

NOTE: FENCE WAS NOT INSTALLED IN PHASE I
EMERGENCY CALL BOX POLE

POLYCARBONATE GLOBE

NOTE: THIS COLUMN BEFORE SELLING TO BE MADE ASSEMBLY

EMERGENCY CALL BOX POST

POLYCARBONATE GLOBE

NOTE: THIS COLUMN BEFORE SELLING TO BE MADE ASSEMBLY

EMERGENCY CALL BOX ENLARGEMENT

POLE MANUFACTURER: SPRING CITY ELECTRICAL MANUFACTURING CO.
MODEL NAME: NEWBURYPORT MODIFIED 9' 2" POST
(CONTACT JHU FOR ELECTRICAL COMPONENTS LIST)

FINISH SPECIFICATIONS: PAINT TO MATCH PAINT CHIP FROM JHU PAINT SHOP
(RAL-7022 UMBRA GREY)

NOTE: POLE AND ELECTRICAL COMPONENTS ARRIVE IN SEPARATE PACKAGES,
ASSEMBLY AND INSTALLATION BY CONTRACTOR INCLUDING SIREN, TELECOM
AND POWER. JHU TO ADVISE CONTRACTOR AS NEEDED.
PIER MOUNTED LAMP FIXTURE

MANUFACTURER: SPRING CITY ELECTRICAL MANUFACTURING CO.

MODEL NAME: BRYANT PARK AC 400 PIER MOUNT,
DWG PM-24514

FINISH SPECIFICATIONS: PAINT TO MATCH PAINT CHIP
FROM JHU PAINT SHOP
(RAL-7022 UMBRA GREY)
PATHWAY LIGHT - POST

MANUFACTURER: SPRING CITY ELECTRICAL MANUFACTURING CO.

MODEL NAME: WASHINGTON / VILLA 12P - M5, DWG LP-24492

FINISH SPECIFICATIONS: PAINT TO MATCH PAINT CHIP FROM JHU PAINT SHOP (RAL-7022 UMBRA GREY)

specs being updated for lamping (8/21/13)

PATHWAY LIGHT POST

MANUFACTURER: SPRING CITY ELECTRICAL MANUFACTURING CO.

MODEL NAME: WASHINGTON / VILLA 12P - M5, DWG LP-24492

FINISH SPECIFICATIONS: PAINT TO MATCH PAINT CHIP FROM JHU PAINT SHOP (RAL-7022 UMBRA GREY)
PATHWAY LIGHT - FIXTURE

MANUFACTURER: SPRING CITY ELECTRICAL
MANUFACTURING CO.

MODEL NAME: EFPB-M1,
DWG PL-24514

FINISH SPECIFICATIONS: PAINT TO MATCH PAINT CHIP
FROM JHU PAINT SHOP
(RAL-7022 UMBRAGREY)

specs being updated for lamping (8/21/13)

PATHWAY LIGHT - FIXTURE

MANUFACTURER: SPRING CITY ELECTRICAL
MANUFACTURING CO.

MODEL NAME: EFPB-M1,
DWG PL-24514

FINISH SPECIFICATIONS: PAINT TO MATCH PAINT CHIP
FROM JHU PAINT SHOP
(RAL-7022 UMBRAGREY)
TRASH RECEPTACLE

MANUFACTURER: VICTOR STANLEY
MODEL NAME: S-42 IRON SITES
FINISH SPECIFICATIONS: PAINT TO MATCH PAINT CHIP FROM JHU PAINT SHOP (RAL-7022 UMBRA GREY), ADD RECYCLING TEXT TO DESIGNATED RECEPTACLES
MANUFACTURER
(Granite cobbles): NEW ENGLAND STONE, INC.

MODEL NAME: WOODBURY S

FINISH SPECIFICATIONS: 5 SIDES SPLIT FACE,
SAWN BOTTOM

TREE PIT
BRICK STAIRS

MARBLE STAIRS
BRICK MANUFACTURER: REDLAND BRICK, INC.
MODEL NAME: GEORGIAN MODULAR
MARBLE MANUFACTURER: GAWET MARBLE & GRANITE, INC.
MODEL NAME: DANBY GREY
FINISH SPECIFICATIONS: EXTERIOR HONED (EXPOSED SURFACE ONLY)
PICTURE FROM HOMEOOD HOUSE

PICTURE FROM CHARLES STREET

BRICK MANUFACTURER: BORAL
MODEL NAME: MODULAR KING WILLIAM

MARBLE
MANUFACTURER: GAWET MARBLE & GRANITE (QUARRY)
HILL GARTNER NATURAL STONE (MASON)
MODEL NAME: DANBY GREY
FINISH SPECIFICATIONS: EXTERIOR HONED (EXPOSED SURFACE ONLY)
AGGREGATE WALK

MANUFACTURER: LUCK STONE

PRODUCT NAME (AGGREGATE): 50% CHAPEL HILL AGGREGATE FINES MIX
50% BERKLEY 3/8" PEA GRAVEL

PRODUCT NAME (BINDER/STABILIZER): TAN DURAPATH

NOTE: REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL PRODUCT DATA AND INSTALLATION REQUIREMENTS